

HHE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE; PRESENTS: SHALL COME; South Dakota Agricultural Experiment Station

MOCCORS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETOWIS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANTS) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE IGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR ORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT D BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321

ET SEQ.

WHEAT, COMMON

'Traverse'

In Testimonn Phereof, I have hereunto set my hand and caused the seal of the Plant Unrichn Frotestion Office to be affixed at the City of Washington, D.C. this third day of Way, in the

Plant Variety Protection Off Agricultural Marketing Serv

REPRODUCE LOCALLY, Include form number and di	ate on all reprodu	Form Approved - OMB No. 0581-0055						
U.S. DEPARTMEN AGRICULTURAL N SCIENCE AND TECHNOLOGY - P	MARKETING SER	VICE	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.					
APPLICATION FOR PLANT VAI (Instructions and information col			Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).					
1. NAME OF OWNER Souths Dakota Agricultu	ıral Expe	eriment Station	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME SD 3687	AL NAME				
4. ADDRESS (Street and No., or R.F.D. No., City, South Dakota State Univ	State, and ZIP Co	de, and Country)	5. TELEPHONE (include area code)	PVPO	FOR OFFICIAL USE ONLY			
SAG 129 Brookings SD 57007		e de la companya de l	(605) 688–4149 6. FAX (include area code)	(605) 688–4149				
Drookings 3D 37007			(605) 688–6065					
7. IF THE OWNER NAMED IS NOT A "PERSON", ORGANIZATION (corporation, partnership, asso	GIVE FORM OF ciation, etc.)	8. IF INCORPORATED, GIVE STATE OF INCORPORATION	9. DATE OF INCORPORATION	1 -	1 t 7 m n 7			
Agricultural Experiment	Station			1	eb, 5, 2007			
10. NAME AND ADDRESS OF OWNER REPRESE		SERVE IN THIS APPLICATION. (First)	person listed will receive all papers)	F W W	FILING AND EXAMINATION FEES: \$ 4387. ←			
Dr. John Kirby, Directo		Dr. Karl Glover		S R	DATE 2/05/2007			
SD Ag Experiment Statio		Spring Wheat Bree		E	CERTIFICATION FEE:			
Box 2207		Plant Science Dep	artment	C E	\$ 768.℃			
SDSU		SNP 247, SDSU		V V				
Brookings SD 57007		Brookings SD 57	007	E D	DATE 4/20/2007			
11. TELEPHONE (Include area code)	12. FAX (Includ	de area code)	13. E-MAIL					
(605) 688–4769	, , ,	688-4452	Karl.Glover@sdstate.edu					
14. CROP KIND (Common Name)	1	AME (Botanical)	18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL)					
Triticum aestivum L.	GRAMIN	EAE	☐ YES X☐ NO		•			
15. GENUS AND SPECIES NAME OF CROP	t '	RIETY A FIRST GENERATION HYBRI) USDA-APHIS REFERENCE NUMBER FOR THE LATE THE GENETICALLY MODIFIED PLANT FOR			
	☐ YES	№ мо	COMMERICALIZATION.					
19. CHECK APPROPRIATE BOX FOR EACH ATTA	L ACHMENT SUBM	ITTED	20. DOES THE OWNER SPECI	20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS				
(Follow instructions on reverse) a. X Exhibit A. Origin and Breeding History			OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) X YES (If "yes", answer items 21 and 22 below) NO (If "no", go to item 23)					
	of the Variety		21. DOES THE OWNER SPECI	21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO				
b. XD Exhibit B. Statement of Distinctness			NUMBER OF CLASSES?					
c. Exhibit C. Objective Description of Var			☐ YES 【】 NO IF YES, WHICH CLASSES? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED					
d. A Exhibit D. Additional Description of the			IF YES, WHICH CLASSES?	FY THAT S	INDATION LI REGISTERED LI CERTIFIED SEED OF THIS VARIETY BE LIMITED AS TO			
e. XIII Exhibit E. Statement of the Basis of the		ship	NUMBER OF GENERATION	NUMBER OF GENERATIONS?				
f. XI Exhibit F. Declaration Regarding Depo			☐ YES 🛣 NO					
g. XII Voucher Sample (3,000 viable untreate that tissue culture will be deposited and	d maintained in an	approved public repository)		IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. FOUNDATION REGISTERED CERTIFIED				
g. X Filing and Examination Fee (\$4,382), m States" (Mail to the Plant Variety Protec	ction Office)		(If additional explanation is necessary, please use the space indicated on the reverse.)					
23. HAS THE VARIETY (INCLUDING ANY HARVES FROM THIS VARIETY BEEN SOLD, DISPOSEI OTHER COUNTRIES?			INTELLECTUAL PROPERT	24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?				
X□ YES □ NO 3/1/06	USA		₩ YES □ NO					
IF YES, YOU MUST PROVIDE THE DATE OF FOR EACH COUNTRY AND THE CIRCUMSTA				IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)				
25. The owners declare that a viable sample of bas for a tuber propagated variety a tissue culture v	ic seed of the vari vill be deposited in	ety has been furnished with application n a public repository and maintained fo	n and will be replenished upon request in or the duration of the certificate.	accordance	e with such regulations as may be applicable, or			
The undersigned owner(s) is(are) the owner of t entitled to protection under the provisions of Sect			y, and believe(s) that the variety is new, o	listinct, uni	form, and stable as required in Section 42, and is			
Owner(s) is (a)e) informed that false representa	tion herein can jed							
SIGNATURE OF OWNER	/ ·		SIGNATURE OF OWNER	ے سنب				
Dr. John Kirby		1	NAME (Please print or type) Dr. Karl Glover					
Director, SDAES	DATE	13/(07)	pring Wheat Breeder	DATE	1/9/07			

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

General E-mail: PVPOmail@usda.gov Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm #200700118

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, Seed Regulatory and Testing Branch, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/isg/seed.htm.

ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

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EXHIBIT A Traverse (SD3687) Origin and Breeding History

'Traverse' is an F₄ derived hard red spring wheat cultivar selected from within the three-parent cross SD3305/KS91W005-1-4//SD8089, which was created in spring 1997 at Brookings, South Dakota. Both SD3305 and SD8089 are unreleased experimental lines developed by the SDSU-HRSW breeding program. The pedigree of SD3305 is SD3005/'Dalen' (PI 552812). The parents of SD3005 were 'Butte' (Cltr 17681)/SD8010//Butte and of SD8010 was 'James' (Cltr 17791)/'Dawn' (Cltr 17801). The pedigree of KS91W005-1-4 is 'Heyne' 'S' (PI 612577)/'Karl' (PI 527480)/3/Karl 'S'/VE1110//PVI18-66. The pedigree of SD8089 is SD8056/SD8061//SD3051 and each of these parents were 'Beau' (Cltr 17420)/Butte, SD2980/'Guard' (Cltr 17934), and SD2604/SD8052, respectively. Traverse was developed and released by the South Dakota Agricultural Experiment Station. It was tested under the experimental designation of SD3687.

During winter 1997-1998, F₁ seeds of the three-parent population were sown at an off-season nursery near Yuma, AZ. During spring 1998, early generation yield testing was initiated with F2 seeds that were returned from Arizona by sowing in unreplicated yield trials at Aurora and South Shore, SD. Spaced-planted nursery plots were simultaneously sown at Aurora to facilitate selection of individual plants from each F2 population. Based on high grain yield of this F2 population at both locations, a head from 20 individual plants were selected from the corresponding spaced-planted nursery plot, threshed singly, and grown as independent F2:3 head-rows in Arizona during winter 1998-1999. Seed of a single selected F_{2:4} head-row was returned from Arizona and again sown in unreplicated yield trials at Aurora and South Shore during spring 1999. Prior to harvest of all F_{2:4} yield trial plots at Aurora, 20 individual plant selections were made by collecting heads from agronomically acceptable and disease free plants. Selected heads from F2:4 plots that were chosen for advancement, based on yield and test weight measurements, were then threshed singly and sown as F4:5 head-rows in Arizona during winter 1999-2000. One of the 20 F_{4:6} sister-lines were selected for continuation within the program based on within-row uniformity, plant height, and minimal lodging. The seed was harvested in AZ and again sown at Aurora and South Shore during spring 2000 as two-replication tests at each location. Based on agronomic performance (grain yield, test weight, plant height, heading date, and disease resistance) as well as flour extraction rates and mixograph tolerance scores over locations during the 2000 growing season, the line was advanced and included in the replicated multi-location Preliminary Yield Trials (PYT) during the 2001 growing season. At this point, the line was designated SD3687. Based on agronomic and disease resistance parameters collected on each of the 2001 PYT test entries, SD3687 was promoted to the 2002 Advanced Yield Trial (AYT) and was included in the AYT from 2002 through 2005. It was simultaneously tested in SDSU Crop Performance Testing (CPT) and Uniform Regional Spring Wheat Nursery (URSWN) trials in 2004 and 2005. For large-scale testing of quality parameters. SD3687 was also included in the 2005 Wheat Quality Council (WQC) trial.

Seed increase was conducted by the South Dakota Spring Wheat Breeding Program in 2003 and 2004. Breeder seed was produced in 2004 and Foundation seed was produced in 2005.

Uniformity and stability of Traverse was closely monitored from 2003 through 2005. Two variant types were found as follows: 1) A taller variant that averaged 4-6" above the canopy. 2) A second variant with a different head type compared with the population was also observed. The second variant was 7-10" above the canopy. The occurrence rate of the 4-6" variant and 7-10" variant were 0.105% and 0.02, respectively, for a total of 0.107%.

Our records indicate that Traverse is most similar to 'Granger', 'Walworth', 'Forge', 'Briggs', 'Ingot', 'Oxen', and 'Russ'. Analysis of several agronomic characters, as well as Polyacrylamide Gel Electrophoresis (PAGE) reveal that Traverse is unique in comparison to these seven varieties.

Grain Yield: Based on analysis of grain yield data collected from South Dakota State University Crop Performance Testing (CPT) trials conducted in 2004 and 2005 (18 location-years), Traverse produced significantly more grain than each of the comparison varieties (Table 1).

Grain Test Weight: Based on analysis of grain test weight data collected from South Dakota State University Crop Performance Testing (CPT) trials conducted in 2004 and 2005 (18 location-years), Traverse produced grain with significantly heavier test weight than Oxen and Russ, significantly lighter than Granger, Forge, Briggs, and Ingot, and similar to Walworth (Table 2).

Plant Height: Based on analysis of plant height data collected from South Dakota State University Crop Performance Testing (CPT) trials conducted in 2004 and 2005 (18 location-years), plants of Traverse were significantly shorter than Granger and Ingot, significantly taller than Walworth, Briggs, and Oxen, but similar to Forge and Russ (Table 3).

Grain Protein: Based on analysis of grain protein data collected from South Dakota State University Crop Performance Testing (CPT) trials conducted in 2004 and 2005 (18 location-years), Traverse produced grain with significantly less protein than Briggs, but similar to the remaining varieties (Table 4).

PAGE: Polyacrylamide Gel Electrophoresis banding patterns revealed that Traverse is differentiated from Walworth, Ingot, and Oxen by its possession of band 1. Its lack of band 2 differentiates Traverse from Granger and Briggs. Its lack of band 3 further differentiates Traverse from Granger, Briggs, and Ingot, but also shows that it is different than Forge and Russ (Figure 1). Methods used to prepare acid-PAGE comparisons are consistent with those presented in the Association of Official Seed Analysts (AOSA) Cultivar Purity Testing Handbook and also the International Seed Testing Association (ISTA) Cultivar Testing Handbook.

The original photograph of this PAGE gel, and the gel itself, are on file at the South Dakota State University Seed Testing Laboratory. Concerns relative to this analysis may be addressed to:

Dr. Brent Turnipseed SDSU Plant Science Dept. Ag Hall 240 P.O. Box 2207-A Brookings, SD 57007-1096 Phone: (605) 688-4589 Fax: (605) 688-4013

Email: Brent.Turnipseed@sdstate.edu

Table 1. Grain yield (bu/ac) comparisons among eight hard red spring wheat varieties evaluated in 2004 and 2005 SDSU Crop Performance Testing trials.

Year	2004	2005	2004 – 2005
Locations	9	9	18
Entry			
Traverse	57.69	48.98	53.59
Granger	54.09	46.77	50.65
Walworth	50.98	42.15	46.82
Forge	51.16	41.78	46.75
Briggs	56.46	46.15	51.61
Ingot	44.26	37.77	41.22
Oxen	52.85	39.74	46.68
Russ	50.88	42.30	46.84
CV	7.69	8.65	8.16
LSD (0.05)	1.84	1.76	1.28

Table 2. Grain test weight (lb/bu) comparisons among eight hard red spring wheat varieties evaluated in 2004 and 2005 SDSU Crop Performance Testing trials.

Year	2004	2005	2004 – 2005
Locations	9	9	18
Entry			
Traverse	57.48	56.53	57.06
Granger	58.97	58.72	58.86
Walworth	57.65	57.36	57.52
Forge	57.85	57.36	57.64
Briggs	58.64	58.07	58.39
Ingot	59.21	59.37	59.28
Oxen	56.40	55.71	56.09
Russ	57.18	55.91	56.62
CV	2.22	2.54	2.36
LSD (0.05)	0.59	0.77	0.47

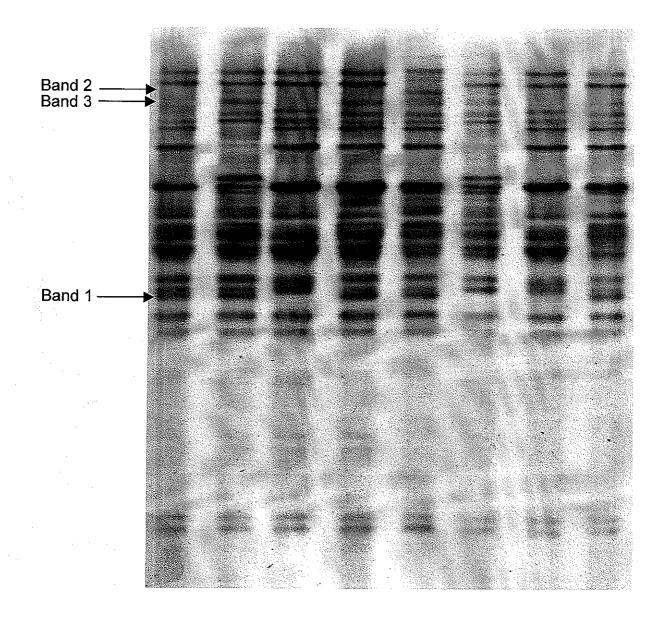
Table 3. Plant height (inches) comparisons among eight hard red spring wheat varieties evaluated in 2004 and 2005 SDSU Crop Performance Testing trials.

Year	2004	2005	2004 – 2005
Locations	9	9	18
Entry			
Traverse	35.17	34.09	34.65
Granger	36.35	35.25	35.81
Walworth	33.73	32.68	33.22
Forge	33.97	34.18	34.07
Briggs	33.88	33.06	33.48
Ingot	36.79	34.68	35.77
Oxen	31.96	30.46	31.21
Russ	35,52	<u>33</u> .96	34.77
CV	5.37	5.10	5.25
LSD (0.05)	0.87	0.82	0.59

Table 4. Grain protein (%) comparisons among eight hard red spring wheat varieties evaluated in 2004 and 2005 SDSU Crop Performance Testing trials.

Year	2004	2005	2004 – 2005
Locations	9	9	18
Entry			
Traverse	14.43	14.27	14.36
Granger	14.70	14.62	14.66
Walworth	14.31	14.41	14.35
Forge	14.15	14.21	14.18
Briggs	15.22	15.01	15.11
Ingot	15.11	14.08	14.63
Oxen	14.62	14.52	14.58
Russ	14.94	14.47	14.73
CV	4.49	4.01	4.05
LSD (0.05) -	0.62	0.63	0.41

Figure 1. Polyacrylamide Gel Electrophoresis (PAGE) image of Hard Red Spring Wheat cultivars; Traverse, Granger, Walworth, Forge, Briggs, Ingot, Oxen, and Russ, presented in the same order.



Form Approved OMB NO 0581-0055

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> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE **SCIENCE AND TECHNOLOGY** PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY Wheat (Triticum spp.)

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME
South Dakota Agricultural	cn 2607	Traverse
Experiment Station	SD 3687	
ADDRESS (Street and No. or RD No., City, State, Zip Code and Cod	intry)	FOR OFFICIAL USE ONLY.
South Dakota State University		PVPO NUMBER
Agricultural Hall 129		er 6%
Brookings SD 57007		#200700118
PLEASE READ ALL INSTRUCTIONS CAREFULLY:		
Place the appropriate number that describes the varie when number is either 99 or less or 9 or less respective should be determined from varieties entered in the said designate system used:	vely. Data for quantitative plant characters should be borne trial. Royal Horticultural Society or any recognized	pased on a minimum of 100 plants. Comparative data
1. KIND: 1 = Common 2 = Durum 3 = Club 4 = Other (Specify)	2. VERNALIZATION: 1 = Spring 2 = Winter 3 = Other (S	Specify)
3. COLEOPTILE ANTHOCYANIN: 1 = Absent 2 = Present	4. JUVENILE PLANT G 2 1 = Prosti	
5. PLANT COLOR: (boot stage)	6. FLAG LEAF: (boot st	age)
2 1 = Yellow-Green 2 = Green	2 1 = Erect	2 = Recurved
3 = Blue-Green	1 = Not Twi	sted 2 = Twisted
· ·	1 = Wax Ab	
7. EAR EMERGENCE:		
0 7 3 Number of Days (Average) 0 2 Number of Days Earlier Than * _	0xen	·
Same Ås *	Granger	
0 1 Number of Days Later Than **Re	Forge lative to a PVPO-Approved Commercial Variety Grown	n in the Same Trial
8. ANTHER COLOR: 1 1 = Yellow 2 = Purple		

9. PLA	ANT HEIGHT: (from soil to top of	head, excluding awns)	200700118
=	cm (Average) cm Taller Than	Walworth	
	Same As	Forge	*
0		Ingot	*
10. ST	ГЕМ:	_	
. A.	. ANTHOCYANIN	*	D. INTERNODE
1	1 = Absent 2 = Present		1 = Hollow 2 = Semi-Solid 3 = Solid
			Number of Nodes
₿.	. WAXY BLOOM		E. PEDUNCLE
	1 = Absent 2 = Present		1 = Erect 2 = Recurved 3 = Semi-Erect 1 6 cm i ength
C.	. HAIRINESS (last internode of ra	ichie)	[1 6] cm Length F. AURICLE
	1 = Absent 2 = Present	·	Anthocyanin: 1 = Absent 2 = Present
	, , soon 2 . Toson		Hair: 1 = Absent 2 = Present
11. HE	AD: (At Maturity)		
Α.	DENSITY		C. CURVATURE
	1 = Lax 2 = Middense (Laxidense) 3 = Dense		2 1 = Erect 2 = Inclined 3 = Recurved
В.	SHAPE		D. AWNEDNESS
	1 = Tapering		4 1 = Awnless
<u>i</u>	2 = Strap 3 = Clavate 4 = Other (Specify)		2 = Apically Awnletted 3 = Awnletted 4 = Awned
12. GL	UMES: (At Maturity)		
A.	COLOR		E. BEAK WIDTH
	1 = White 2 = Tan 3 = Other (Specify)		1 = Narrow 2 = Medium 3 = Wide
В.	SHOULDER		F. GLUME LENGTH
2	1 = Wanting 2 = Oblique 3 = Rounded 4 = Square	•	1 = Short (ca. 7 mm) 2 = Medium (ca. 8 mm)
	5 = Elevated 6 = Apicula 7 = Other (Specify)	nte	3 = Long (ca. 9 mm)
C.	SHOULDER WIDTH		G. WIDTH
3	1 = Narrow 2 = Medium 3 = Wide		3 1 = Narrow (ca. 3 mm) 2 = Medium (ca. 3.5 mm) 3 = Wide (ca. 4 mm)
D. I	BEAK		H. PUBESCENCE
2	1 = Obtuse 2 = Acute 3 = Acuminate		1 = Not Present 2 = Present

	Exhibit C (vineat
13. SEED:	200700118
A. SHAPE	E. COLOR
1 = Ovate 2 = Oval 3 = Elliptical	1 = White 2 = Amber 3 = Red 4 = Other (Specify)
B. CHEEK	F. TEXTURE
1 = Rounded 2 = Angular	1 = Hard 2 = Soft 3 = Other (Specify)
C. BRUSH	G. PHENOL REACTION (See Instructions)
2 1 = Short 1 = Not Collared 2 = Medium 2 = Collared 3 = Long	1 = Ivory 4 = Dark Brown 2 = Fawn 5 = Black 3 = Light Brown
D. CREASE 1 = Width 60% or less of Kernel 2 = Width 80% or less of Kernel 3 = Width Nearly as Wide as Kernel	H. SEED WEIGHT g/1000 Seed (whole number only) I. GERM SIZE
1 = Depth 20% or less of Kernel 2 = Depth 35% or less of Kernel 3 = Depth 50% or less of Kernel	1. GERWI SIZE 2 1 = Small 2 = Midsize 3 = Large
14. DISEASE: PLEASE INDICATE THE SPECIFIC RACE OR STRAI	IN TESTED
(0 = Not Tested 1 = Susceptible	2 = Resistant 3 = Intermediate 4 = Tolerant)
2 Stem Rust (Puccinia graminis f. sp. tritici)	2 Leaf Rust (Puccinia recondita f. sp. tritici)
3 Stripe Rust (<i>Puccinia striiformis</i>)	O Loose Smut (Ustilago tritici)
3 Tan Spot (Pyrenophora tritici-repentis)	6 Flag Smut (Urocystis agropyri)
Ω Halo Spot (Selenophoma donacis)	Common Bunt (Tilletia tritici or T. laevis)
O Septoria nodorum (Glume Blotch)	Dwarf Bunt (Tilletia controversa)
Septoria avenae (Speckled Leaf Disease)	O Karnal Bunt (Tilletia indica)
Septoria tritici (Speckled Leaf Blotch)	
3 Scab (Fusarium spp.)	To macry what (Expapsio granino i. sp. macry
0 "Black Point" (Kernel Smudge)	
	Common Not Not I usanum, Coemicobolus and Dipolans spp.,
	Rhizoctonia Root Rot (Rhizoctonia solani)
O Soilborne Mosaic Virus (SBMV) Wheat Yellow (Spindle Streak) Mosaic Virus	Black Chaff (Xanthomonas campestris pv. translucens).
	Bacterial Leaf Blight (<i>Pseudomonas syringae</i> pv. <i>syringae</i>)
0 Wheat Streak Mosaic Virus (WSMV)	Other (Specify)
Other (Specify)	Other (Specify)
Other (Specify)	Other (Specify)
Other (Specify)	Other (Specify)
5. INSECT: (0 = Not Tested 1 = Susceptible 2 = Resistant	3 = Intermediate 4 = Tolerant) FY BIOTYPE (where needed)
0 Hessian Fly (Mayetiola destructor)	Other (Specify)
0 Stem Sawfly (Cephus spp.)	Other (Specify)
O Cereal Leaf Beetle (Oulema melanopa)	Other (Specify)
—— (- we man more pay	

	_	
Exhibit	С	(Whea

15.	INSECT: (continued)	(0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Intermediate	4 = Tolerant)				
i	O Russian Aphid (<i>Diu</i> O Greenbug (<i>Schizar</i> O Aphids	•	PLEASE S	Other ((Where Needed) Specify) Specify) Specify)	#20	0 7	0	0 '	18

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS:

#200700118

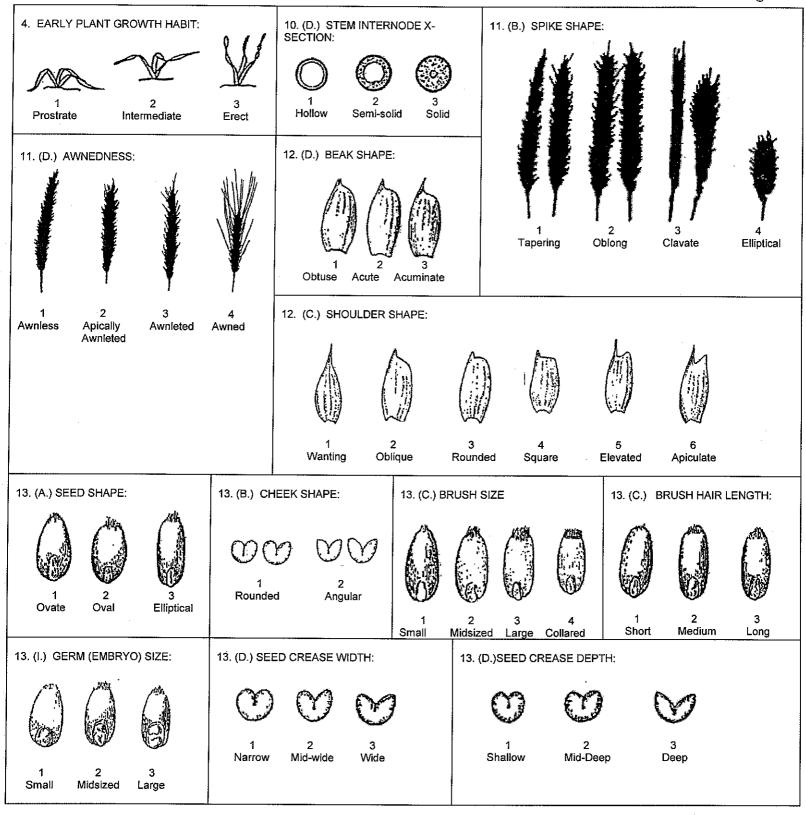


EXHIBIT D Traverse (SD3687) Additional Descriptive Information

Table 5: Kernel quality characteristics of Traverse (SD3687) Hard Red Spring Wheat compared with other entries included in the 2004 Uniform Regional Hard Red Spring Wheat Nursery grown at 12 locations within Minnesota, North Dakota, and South Dakota.

Table 6: Flour quality characteristics of Traverse (SD3687) Hard Red Spring Wheat compared with other entries included in the 2004 Uniform Regional Hard Red Spring Wheat Nursery grown at 12 locations within Minnesota, North Dakota, and South Dakota.

Additional Information: Evidence of permission to use the name 'Traverse' for SD3687.

Kernel

Table 5: Kernel quality characteristics of Traverse (SD3687) Hard Red Spring Wheat compared with other entries included in the 2004 Uniform Regional Hard Red Spring Wheat Nursery grown at 12 locations within Minnesota, North Dakota, and South Dakota.

Kernel Size

Whole Kernel

ound Whe

Wheat

1000

ND 747

ND 751

ND 800

ND 801

SD3618

SD3635

SD3668

SD3687

SD3746

SD3747

WA007925

WA007931

Verde

Mean

Std Dev

Std Err

NDSW0217

NDSW0345

NDSW0347

63.76

62.29

61.83

62.57

60.30

59.94

60.62

60.83

60.83

61.01

59.15

58.01

58.15

59.87

59.55

58.50

60.21

1.57

0.25

32.99

33.37

33.64

31.67

30.67

33.64

29.99

33.44

31.37

34.60

34.01

32.70

32.25

33.20

29.29

30.18

32.24

2.42

0.38

69.25

74.25

74.83

65.92

52.83

67.08

56.92

64.92

57.00

71.09

68.17

65.64

58.08

72.33

39.75

46.58

60.66

12.81

2.03

TW kwt lg sm Protein Moist IR -Protei Ash Hardness Cultivar lb/bu (g) (%) (%) 12%mb 12%mb_ 14%mb % NIR 2375 60.93 35.90 69.75 3.42 14.23 9.64 14.23 1.53 59.87 96S0404-03 60.79 31.00 63.45 3.91 13.97 9.65 13.97 1.62 55.30 97S0254-8-1 60.04 34.97 78.59 1.75 14.83 10.10 14.83 1.62 57.69 98S0051-1 61.11 32.88 66.58 4.67 14.09 9.82 14.09 1.53 64.75 98S0127-06 60.66 30.08 52.42 7.75 13.66 9.83 13.66 1.56 64.97 BW341 61.28 31.33 44.17 6.25 15.05 9.91 15.05 1.55 60.38 BW346 58.63 32.72 43.50 4.75 15.31 9.65 15.31 1.63 54.83 BW828 60.37 30.04 56.09 3.73 15.09 9.75 15.09 1.63 59.79 BZ 998-447W 56.47 37.99 78.58 3.50 13.98 10.16 13.98 1.56 53.73 CA-901-580W 61.21 35,47 72.33 3.25 14.28 9.75 14.28 1.53 62.25 CA-902-701 62.29 31.60 65.92 2.67 15.22 9.61 15.22 1.60 62.53 Chris 59.24 27.85 45.33 7.67 15.32 9.63 15.32 1.61 61.08 **ES63** 57.65 33.90 55.08 6.75 14.31 9.83 14.31 1.62 61.13 Keene 60.97 31.36 55.17 5.67 14.88 9.85 14.88 1.55 63.89 MN00261-4 61.79 32.34 61.67 3.33 14.68 10.23 14.68 1.59 67.76 MN01197 58.88 32.81 67.58 4.33 13.51 9.96 13.51 1.56 62.08 MN01311-A 61.17 37.41 74.58 2.33 14.69 10.39 14.69 1.53 67.38 MN01333-A 60.98 33.39 67.00 3.83 14.53 9.83 14.53 1.44 52.95 MN99436-6 30.33 60.78 6.08 49.42 14.92 9.83 14.92 1.57 56.96 MT 0245 58.30 29.47 42.25 11.25 14.75 10.11 14.75 1.62 61.15 MT 0249 57.47 26.95 21.08 19.08 14.56 9.78 14.56 1.63 61.79 Marquis 58.74 27.55 44.42 8.42 14.25 56.82 9.65 14.25 1.65 N99-0241 59.48 32.22 71.33 3.25 14.22 9.86 14.22 1.53 56.03 ND 741 61.88 33.22 75,42 3.00 15.30 1.57 64.92 10.18 15.30

2.83

3.00

2.75

3.92

6.08

3.42

5.00

3.67

4.67

3.73

4.17

5.18

6.33

3.42

9.75

5.23

3.19

0.50

10.75

15.54

15.43

15.00

15.38

11.96

14.48

14.98

14.15

13.43

14.49

13.94

13.35

13.40

13.91

13.78

13.23

14.40

0.76

0.12

10,47

10.28

10.18

10.01

9.99

10.25

10.12

9.59

9.88

9.45

9.55

9.71

10.31

10.18

9.79

10.14

9.92

0.26

0.04

15.54

15.43

15.00

15.38

11.96

14.48

14.98

14.15

13.43

14.49

13.94

13.35

13.40

13.91

13.78

13.23

14.40

0.76

0.12

1.60

1.52

1.56

1.54

1.47

1.59

1.56

1.54

1.55

1.57

1.51

1.61

1.54

1.54

1.55

1.55

1.56

0.04

0.01

62.71

54.19

64.98

74.11

59.14

64.23

54.68

65.74

59.23

65.15

61.51

59.97

59.09

64.56

44.91

46.78

60.27

5.54

0.88

Table 6: Flour quality characteristics of Traverse (SD3687) Hard Red Spring Wheat compared with other entries included in the 2004 Uniform Regional Hard Red Spring Wheat Nursery grown at 12 locations within Minnesota, North Dakota, and South Dakota.

				,			Bake		
	Flour	Flour	Flour	Flour	Mixo	Peak	Mix	Bake	Loaf
	Extraction	Moist	Protein	Ash	Peak	Value	Time	Abs	Vol
Cultivar	%	%	14%mb	14%mb	(min)	(%)	(min)	%	(cc)
2375	58.94	12.81	12.96	0.36	3.62	58.70	2.44	60.10	199.75
96S0404-03	58.56	12.80	13.05	0.37	8.21	51.23	3.23	58.42	200.45
97S0254-8-1	58.93	12.88	13.48	0.35	6.09	65.18	2.75	60.22	202.67
98S0051-1	59.36	12.80	12.74	0.37	5.97	52.51	2.88	58.53	199.83
9850127-06	57.48	12.77	12.46	0.37	6.27	57.00	3.06	60.53	204.08
BW341	60.28	13.03	13.97	0.36	3.51	60.25	2.21	58.77	209.50
BW346	57.88	13.02	14.09	0.33	4.09	57.38	2.33	58.86	200.83
BW828	55.77	12.76	13.96	0.37	4.23	58.50	2.48	58.99	206.73
BZ 998-447W	53.71	12.88	12.43	0.37	6.99	54.01	3.25	59.49	200.42
CA-901-580W	55.32	12.78	13.26	0.36	3.02	63.80	2.10	60.87	204.50
CA-902-701 Chris	54.88	12.93	13.97	0.35	3.79	63.91	2.31	61.42	200.83
ES63	57.68 56.33	12.79	14.33	0.36	3.54	60.07	2.31	60.03	210.42
Keene	5 7. 02	12.79 12.70	12.78 13.58	0.42	11.13	58.51	4.23	59.16	183.33
MN00261-4	58.59	12.74	13.20	0.36	4.39	63.44	2.67	62.31	206.75
MN01197	60.89	13.03	12.13	0.36 0.37	7.32 5.47	59.78 53.07	3.31	59.56	192.67
MN01137	59.47	13.30	13.12	0.37	4.95	53.07 57.79	2.75 2.58	57.23 57.70	204.25 198.42
MN01333-A	55.49	12.87	13.12	0.35	4.95 6.15	62.03	2.50	59.88	203.92
MN99436-6	56.23	12.81	13.58	0.33	5.26	59.59	2.92	60.00	203.92
MT 0245	56.03	12.95	13.53	0.34	3.70	61.18	2.42	59.38	206.42
MT 0249	55.63	12.56	13.33	0.39	3.36	56.37	2.44	58.43	201.17
Marquis	57.78	12.87	13.30	0.39	4.62	55.80	2.60	58.90	199.33
N99-0241	58.89	13.23	13.14	0.34	6.38	61.64	3.04	59.95	204.25
ND 741	56.03	12.83	14.11	0.35	3.64	64.53	2.44	60.18	221.33
ND 747	53.79	12.84	14.53	0.34	6.03	67.29	2.88	60.58	211.00
ND 751	51.79	12.98	14.26	0.32	7.18	60.91	2.94	59.58	216.08
ND 800	55.28	12.87	14.12	0.35	3.76	62.93	2.50	60.97	215.25
ND 801	56.48	12.79	14.16	0.36	3.91	64.38	2.40	60.20	211.08
NDSW0217	57.96	12.82	11.09	0.35	5.43	50.52	2.98	59.10	197.67
NDSW0345	56.38	12.65	13.44	0.38	3.40	62.92	2.35	59.41	215.83
NDSW0347	54.95	12.77	13.70	0.35	4.81	57.43	2.63	58.66	209.92
SD3618	57.64	12.48	12.56	0.37	3.97	58.69	2.54	60.18	194.42
SD3635	59.08	12.98	12.23	0.36	5.28	60.98	2.83	60.17	190.33
SD3668	60.04	12.64	13.00	0.38	4.16	63.06	2.57	59.85	206.18
SD3687	57.33	12.63	12.48	0.38	2.52	57.49	1.88	58.88	188.50
SD3746	58.55	12.82	11.92	0.38	6.88	54.64	3.23	58.69	200.27
SD3747	58.09	13.10	11.82	0.35	5.80	55.68	3.17	59.62	200.25
Verde	62.18	12.84	12.53	0.35	4.26	58.10	2.65	59.28	198.67
WA007925	52.54	13.14	12.76	0.37	11.10	48.87	3.96	58.28	193.58
WA007931	54.00	13.13	12.62	0.38	5.16	53.43	2.71	56.87	199.33
Mean	57.08	12.86	13.18	0.36	5.23	58.84	2.75	59.48	203.35
Std Dev	2.27	0.17	0.78	0.02	1.92	4.36	0.46	1.08	8.42
Std Err	0.36	0.03	0.12	0.00	0.30	0.69	0.07	0.17	1.33

		•			
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STATEMENT OF THE BASIS OF OWNERSHIP	confidential until the certificate is issu	Jed (7 U.S.C. 2426).			
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION 3. VARIETY NAME OR EXPERIMENTAL NUMBER				
outh Dakota Agricultural Experiment Statio	on SD 3687	TRAVERSE			
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)			
outh Dakota State University AG 129	(605) 688-4149	(605) 688-6065			
rookings SD 57007	7. PVPO NUMBER				
		49 N N 7 N N 1 4			
8. Does the applicant own all rights to the variety? Mark an "X" in the		#20070011			
9. Is the applicant (individual or company) a U.S. national or a U.S. ba	ased company? If no give name of c	ountry. X YES NO			
to the approximation of a c.c. pr	ased company? If no, give hame of c	ountry. X 123 NO			
10. Is the applicant the original owner? YES	NO If no, please answer one	of the following:			
a. If the original rights to variety were owned by individual(s), is (a	are) the original owner(s) a U.S. Nation	al(s)?			
X YES	NO If no, give name of coun				
	· •				
b. If the original rights to variety were owned by a company(ies),	is (are) the original owner(s) a U.S. ba NO If no, give name of count				
11. Additional explanation on ownership (Trace ownership from origin	nal breeder to current owner. Use the r	everse for extra space if needed):			
•					
	•				
PLEASE NOTE:		, , , , , , , , , , , , , , , , , , ,			
Plant variety protection can only be afforded to the owners (not license	ees) who meet the following criteria:				
If the rights to the variety are owned by the original breeder, that pe national of a country which affords similar protection to nationals of	erson must be a U.S. national national	of a UPOV member country, or			
2. If the rights to the variety are owned by the company which employe					

- If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

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> U.S. DEPARTMENT OF AGRICULTURE **AGRICULTURAL MARKETING SERVICE** SCIENCE AND TECHNOLOGY **PLANT VARIETY PROTECTION OFFICE** BELTSVILLE, MD 20705

EXHIBIT F DECLARATION REGARDING DEPOSIT

NAME OF OWNER (S) South Dakota Agricultural Experiment Station	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) South Dakota State University	TEMPORARY OR EXPERIMENTAL DESIGNATION SD 3687
	SAG 129 Brookings SD 57007	VARIETY NAME TRAVERSE
NAME OF OWNER REPRESENTATIVE (S) DR. Karl D. Glover Spring Wheat Breeder	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	FOR OFFICIAL USE ONLY
	Plant Science Department SNP 247, SDSU Brookings SD 57007	#200700118

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Signature